1

satemnes.
s wpuer s
Ĉ
Luenomema

J	an.	n. 1887. and of Phenomena of Jupiter's Satellites.															111					
	Observer.	+	. i	H. T.	Ħ	ı,	•	: :	: :	H	i :	: :	<u>.</u> E	÷	•		2	j.	H. T.	A. D.	:	2
Mean Solar	Time of N.A.	д ;	10 15 8	91 01	12 50 30		11 31		13 45		9.58			10 49		10 59		8 11	12 28 45	10 6 43	Y	10 10
Mean Solar	Tinne of Observation.	h m s 10 13 27	10 15 8	10 17 21	12 51 6	11 29 18	11 32 22	13 41 41	13 45 11	9 52 22	9 56 37	10 2 17	10 41 30	IO 44 45	10 56 13	IO 58 42	8 8 16	8 12 21	12 35 35	10 8 31	10 12 31	∫ 91 61 or
	Power.	100		220	20	210	210	70	,	80	"	"	210	**		:	140	,	220	. 66		"
, E	r.elescopo.	Altaz.	£	Simms' Eq.	E. Eq.	<u> </u>	. \$	ç		Simms' Eq.	•	•	E. Eq.	£	•	*	Simms Eq.		33	,,		66
	r'nenomenon.	Began to fade	Last seen	Last contact	Last seen	First contact	Last contact	First contact	Last contact	First seen	Bisection	Last contact	Pirst contact	Last, confact.	First seen	Last contact	First contact	Last contact	First seen	Last seen	First contact	Last contact
ţ	rnenor	Ecl. D.		Tr. Egr.	Ecl. D.	Tr. Ing.		Tr. Egr.		Occ. R.			Tr. Egr.		Occ. R.		Tr. Egr.		Ecl. R.	Ecl. D.		Tr. Ing.
0.4011340	Sabembe.	I.	H	нi	Π.	H	⊢ i	H	-i	III.	III.	III.	11.	II.	ï	T	H	H	IV_{ullet}	111.	11.	II.
Dow of Ober	Lay of Obs.	1886, Feb. 22 (a)	2.2	23 (b)	Mar. 8	6	6	(0) 6	6	OI	(p) or	OI	01	01	10	10	11	II	11 (e)	17	17 (f)	11

11	Greenwich Observations of Occumulations 221-11 3;																					
Observer.	Ä	ij.		2		A. P.	S. D.	A. P.	s. D.	H. T.	S. D.	A. D.	:		J. P.	H.T.	Ή	R. W.	2	A. D.		H. T.
Mean Solar Time of N.A. h m s II 9		7 50					10 5		11 39		12 44 46		8 48		8 43 44	11 I 34	9 52	9	9 23		95 P	12 41 19
Mean Solar Time of Observation.	h m s II IO 28	7 45 34	7 48 48	12 50 39	12 55 9	IO 5 39	IO 5 14 §	11 39 54	11 39 59	12 44 33	12 44 43	8 44 5	8 46 10	8 49 34	8 46 28	11 2 5	9 51 57	9 23 53	9 26 13	9 57 24	10 3 7	12 41 32
Power.	210	100	"		,60	. 6	210	001	210	350	100	210	"	â	70	220	210	100		210	, , ,	220
Telescope.	E. Eq.	Altaz.		33	,,	99	E. Eq.	Altaz,	E. Eq.	Lassell Refl.	Altaz.	E. Eq.	, , , ,	9 6 6	a 6.	Simms' Eq.	E. Eq.	Altaz.	\$	E. Eq.		Simms' Eq.
Phenomenon.	Last contact	. First contact	Last contact	g. * First contact	Last contact	Last seen	Last seen	Last seen	Last seen	First seen	First seen	: First contact	Bisection	Last contact	First seen	First seen	First seen	Bisection	Last contact	Began to fade	Last seen	First seen
Phenc	${ m Tr.~Ing.}$	Tr. Egr		Tr. Ing		Occ. D.				Ecl. R.		Tr. Egi			Ecl. R.		-	Occ. R.		Ecl. D.		Ecl. R.
Satellite.	ï	I.	Ť	I.	T.	ľ	T.	II.	II.	ï	ij	II.	II.	II.	III.	ï	II.	III.	III.	Ħ.	III.	III.
Day of Obs.	6, Apr. I (g)	8	(W)	8	8	6	6	6	6	(4) 6	6	II	II	11	22	25(i)	27	29	29	(j) 62	29	29 (k)

Jan. 1887. and of Pheno										ena	of	Ju_j	pite	er's	Sa	tell	lite	3.			113	3
Observer.		H.T.	"	33	66	ij	66		H.T.		•	£	Ë			Ţ,	. 66	. 60		R. W.		"
Mean Solar Time of N.A.	h m s	°°	0 33		10 1				12 55 53		12 55			9 22		12 28 48				9 57		
Mean Solar Time of Observation.	h m s	8 27 I	8 33 31	9 55 31	IO 0 38	10 11 31	9 59 47	IO 9 26	12 56 0	12 56 45	13 0 45	13 4 15	9 18 38	9 20 22	9 22 22	12 28 43	12 30 28	9 54 55	10 3 33	9 54 7	9 57 17	IO 0 47
Power.		220	£			, \$	210	*	350	,,	i,	:	220		:	210	"	,,	•	100		33
Telescope.		Simms' Eq.	,	•			E. Eq.	" "	Lassell Refl.	99		•	Simms' Eq.	,,		E. Eq.		í		Altaz.	•	
menon.		Bisection	Last seen	First seen	Bisection	Last contact	First seen	Last contact	First seen	First contact	Bisection	Last contact	First contact	Bisection	Last contact	First scen	Full brightness	First contact	Last seen	First contact	Bisection	Last seen
Phenomenon.		Occ. D.		Occ. R.					Ecl. R.	Tr. Ing.			Tr. Egr.			Eel. R.		Occ. D.				
Satellite.		IV.	IV.	IV.	IV.	IV.	IV.	IV.	H	II.	11.	II.	Τ.	I.	ľ.	11.	11.	III.	III.	III.	III.	III.
Day of Obs.		1886, Apr. 30	30 (/)	30	30	30 (m)	30	30	May $2(n)$	6 3	2 (n)	8	3	က	3	4	4	9	9	9	9	9
		18																	*	_		

 $\ensuremath{\texttt{©}}$ Royal Astronomical Society • Provided by the NASA Astrophysics Data System

I 2

was

	14 .•			G_{1}	reen				erv		ms	of	Occ	ulta
Cbserver.	R.W.	•	: 2	Ħ.		Ţ,		ij	:	A. D.		2		,
Time of N.A.	h m s		I3 57 55		11 13 30		9 42		9 21	,	9 30 53	(9 40	
Time of Observation.	h m s 12 49 54	12 56 55	13 58 17	II 13 29	11 14 53	9419	9 47 9	9 23 58	9 26 43	9 36 29	9 41 2	9 39 31	9 42 25	
Power.	210		*	:	*	220		210		140	*	210	:	-
Telescope.	E. Eq.	"	ť	2		Simms' Eq.		E. Eq.			•	66	66	Notes.
Phenomenon.	First seen	Last contact	Last seen	First seen	Full brightness	First contact	Last contact	First contact	Bisection	First seen	Full brightness	Bisection	Last contact	
Pheno	Occ. R.		Ecl. D.	Ecl. R.		Tr. Egr.		Tr. Ing.		Ecl. R.		Tr. Egr.		
Satellite.	III.	III.	III.	ij	T,	ij	II.	11.	Ï,	11.	II.	II.	III.	
Day of Obs.	1886, May 6	9	9	18	18	20	20	27	27 (0)	29	29	July 6	9	Okassastissas Sassits

Observations considered good.

Satellite much brighter than *Jupiter*.

(a) The time recorded for bisection is probably too early.

No trace of the satellite was visible at 12^h 33^m 30^s, when *Jupiter* was lost in cloud; on reappearing at the time recorded the satellite

Time recorded very uncertain, as the sky was thick and the satellites were faint. was seen with some distinctness. Thick cloud then came up

િ

Observed through a temporary break in the clouds, but considered a real observation of reappearance. (h) Definition very bad. Planet was obscured at times by cloud

Observation uncertain from cloud.

Until 8n 35m there appeared to be a slight abruptness on Jupiter's limb at the point of disappearance, but the observer (m) Satellite well clear at 10^h 14^m 30^s.
(o) Jupiter diffused. Observed through cloud, but the planet was shining brilliantly when the satellite was first seen. to consider this the effect of strain on the eye. inclined

(n) Definition very bad owing to haze.

Downloaded from http://mnras.oxfordjournals.org/ at East Tennessee State University on June 13, 2015

Occultation of γ Virginis, 1886. By F. C. Penrose.

A few remarks on an observation of an occultation of γ Virginis on the 18th inst. may be interesting to the Royal Astro-

nomical Society.

The morning was fine, but there were some slight clouds, and one was over the Moon near the time predicted for the reappearance, so that I could not see the grey Moon, and, as I was dependent on the position-angle at the vertex, could not use a power high enough to separate the star properly, but I think the observation was more interesting and beautiful in consequence.

At G.M.T., \pm say 2^s, 16^h 33^m 32^s, a bright flash showed the reappearance of γ_1 , and exactly 10 seconds later was another

flash, which seemed to double the brightness of the star.

The time was corrected by altitudes of east and west stars observed at nearly the same altitude and azimuth with a theodolite.

I got several positions of Barnard's Comet, particularly Nov. 29, Dec. 4, and Dec. 9, but they are probably liable to errors of two or three minutes of arc.

Approximate place of station, longitude 1h 34m 58 E., and

latitude 37° 58′ 15″ N.

Athens: 1886, Dec. 26.

Occultation of Aldebaran, Jan. 6, 1887. By the Rev. S. J. Johnson, M.A.

The occultation of Aldebaran on the 6th was observed here very favourably. Disappearance at 12h 12m 49s was instantaneous; not the slightest lingering or projection on the limb, though a portion of the Moon's dark limb was left, and the sky around was perfectly clear. The star seemed to lose its redness as the Moon approached it; the emersion at 13h 14m 5s not nearly so sudden. Star seemed to creep out leisurely from a point just north of the Mare Crisium, but some haze was present. Power 50 employed, on 3¼-inch. Time by sextant.

Melplash Vicarage, Dorset: 1887, Jan. 10.